

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 30.07.2014

version no: 2

Revision: 30.07.2014

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SECTION 1: Identification of the substance/mixture and of the company/undertaking . 1.1 Product identifier . Trade name: Hardener for Fixers and Stop baths . Article number: 101038 . 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. . Application of the substance / the mixture Fixing bath for photographic use . 1.3 Details of the supplier of the safety data sheet . Manufacturer/Supplier: TETENAL Europe GmbH Schützenwall 31-35 D-22844 Norderstedt / Germany Phone: ++49 (0) 40 521 45-0; Fax: +49 (0) 40-52145-296 www.tetenal.com; E-Mail: info@tetenal.com TETENAL Ltd., 2 Meridian West, Meridian Business Park, Leicester LE19 1WX Phone: 0116 - 289 3644; E-Mail: uk@tetenal.com; www.tetenaluk.com . Further information obtainable from: Department environment and safety. E-Mail: info@tetenal.com . 1.4 Emergency telephone number: Poison Information Centre Berlin (Germany): +49 (0) 30 - 30686 790 **SECTION 2: Hazards identification** . 2.1 Classification of the substance or mixture . Classification according to Regulation (EC) No 1272/2008 GHS05 Skin Corr. 1B H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. Eye Dam. 1 Classification according to Directive 67/548/EEC or Directive 1999/45/EC Xi; Irritant R38-41: Irritating to skin. Risk of serious damage to eyes. . Information concerning particular hazards for human and environment: The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version. . Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature data. . 2.2 Label elements . Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. . Hazard pictograms GHS05 . Signal word Danger (Contd. on page 2)



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. Hazard-determining components of labelling: aluminium sulphate				
. Hazard statements				
H314 Causes severe skin burns and eye damage.				
. Precautionary statements				
P264 Wash thoroughly after handling.				
P280 Wear protective gloves/protective clothing/eye protection/face protection.				
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.				
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.				
P405 Store locked up.				
P501 Dispose of contents/container in accordance with local regulations.				
. 2.3 Other hazards				
. Results of PBT and vPvB assessment				
. PBT: Not applicable.				
. vPvB: Not applicable.				

SECTION 3: Composition/information on ingredients

. 3.2 Chemical characterization: Mixtures

. Description: Mixture of substances listed below and with nonhazardous additions.

. Dangerous components:		
CAS: 64-19-7	acetic acid	10-<25%
EINECS: 200-580-7	C R35	
Index number: 607-002-00-6	R10	
Reg.nr.: 01-2119475328-30	🚸 Flam. Liq. 3, H226; 🔶 Skin Corr. 1A, H314	
CAS: 10043-01-3	aluminium sulphate	10-<25%
EINECS: 233-135-0	🗙 Xi R41	
	📀 Eye Dam. 1, H318	
Additional informations For	the month of the listed with a harves after to costion 16	

. Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

. 4.1 Description of first aid measures

. General information: Immediately remove any clothing/shoes soiled by the product.

. After inhalation:

In case of unconsciousness place patient stably in side position for transportation. Supply fresh air; consult doctor in case of complaints.

- . After skin contact: Immediately wash with water and soap and rinse thoroughly.
- . After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- . After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- . 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- . **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

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SECTION 5: Firefighting measures

. 5.1 Extinguishing media

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. Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- . 5.2 Special hazards arising from the substance or mixture
- Under certain fire conditions, traces of other toxic gases cannot be excluded.
- . 5.3 Advice for firefighters
- . Protective equipment: No special measures required.

SECTION 6: Accidental release measures

. 6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation

. **6.2 Environmental precautions:** Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

. 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Pick up mechanically.

- . 6.4 Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

SECTION 7: Handling and storage

. 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

. Information about fire - and explosion protection: No special measures required.

. 7.2 Conditions for safe storage, including any incompatibilities

- . Storage:
- . Requirements to be met by storerooms and receptacles: No special requirements.
- . Information about storage in one common storage facility:
- Store away from foodstuffs.

Store away from oxidizing agents.

. Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Store under lock and key and out of the reach of children.

Recommended storage temperature: 5-25 °C

. 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

. Additional information about design of technical facilities: No further data; see item 7.

. 8.1 Control parameters

. Ingredients with limit values that require monitoring at the workplace:

64-19-7 acetic acid (10-<25%)

IOELV (EU) Long-term value: 25 mg/m³, 10 ppm

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Neoprene gloves	nufacturer to man	bes not only depend on the material, but also on further marks of qualit nufacturer. As the product is a preparation of several substances, th ot be calculated in advance and has therefore to be checked prior to th
Penetration time of (-1	
		lover thickness
	breakthroug-time >480 min	layer thickness ≥0,4mm
•	>480 min	≥0,411111 ≥0,38mm
	>240 min	≥0,58mm
1		≥ 0.05 min e found out by the manufacturer of the protective gloves and has to b
observed.		e real sur of the manufacturer of the protective groves and has to b
Eye protection:		
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. Body protection: Protective work clothing

SECTION 9: Physical an	d chemical properties	
. 9.1 Information on basic physi . General Information	cal and chemical properties	
. Appearance:		
Form:	Fluid	
Colour:	Colourless	
. Odour:	Pungent	
. pH-value at 20 °C:	2	
. Change in condition Melting point/Melting range: Undetermined. Boiling point/Boiling range: > 100 °C		
. Flash point:	Not applicable.	
. Ignition temperature:	485 °C	
. Self-igniting:	Product is not selfigniting.	
. Danger of explosion:	Product does not present an explosion hazard.	
. Explosion limits: Lower: Upper:	4.0 Vol % 17.0 Vol %	
. Vapour pressure at 20 °C:	23 hPa	
. Density at 20 °C:	1.14 g/cm ³	
. Solubility in / Miscibility with water:	Fully miscible.	
. Solvent content: Organic solvents: Water: . 9.2 Other information	15.3 % >60 % No further relevant information available.	

SECTION 10: Stability and reactivity

- . 10.1 Reactivity
- . 10.2 Chemical stability

. Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- . 10.3 Possibility of hazardous reactions Reacts with acids, alkalis and oxidizing agents.
- . 10.4 Conditions to avoid No further relevant information available.
- . 10.5 Incompatible materials: No further relevant information available.

. 10.6 Hazardous decomposition products: Irritant gases/vapours

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SECTION 11: Toxicological information

. 11.1 Information on toxicological effects

. Acute toxicity:

. LD/LC50 values relevant for classification:

64-19-7 acetic acid

Oral	LD50	3310 mg/kg (rat)
Dermal	LD50	1130 mg/kg (rabbit)
* * * *	1 0 50	11 5600 56 6

Inhalative LC50 1h: 5620 mg/L (mou)

. Primary irritant effect:

- . on the skin: Irritant to skin and mucous membranes.
- . on the eye: Strong irritant with the danger of severe eye injury.
- . Sensitization: No sensitizing effects known.

. Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Corrosive Irritant

×

SECTION 12: Ecological information

. 12.1 Toxicity

. Aquatic toxicity: 64-19-7 acetic acid

LC50 24h: >100 mg/L (daphnia magna (Großer Wasserfloh))

96h: >1000 mg/L (fish (acute toxicity study))

96h: 75 mg/L (Lepomis macrochirus)

24h: 106 mg/L (Pimephales promelas)

. 12.2 Persistence and degradability No further relevant information available.

- . 12.3 Bioaccumulative potential No further relevant information available.
- . 12.4 Mobility in soil No further relevant information available.
- . Additional ecological information:

. General notes:

Do not allow product to reach ground water, water course or sewage system.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

. 12.5 Results of PBT and vPvB assessment

- . **PBT:** Not applicable.
- . **vPvB:** Not applicable.

. 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

. 13.1 Waste treatment methods

. Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

. European waste catalogue

09 01 04 fixer solutions

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. Uncleaned packaging:

*

. **Recommendation:** Disposal must be made according to official regulations.

. Recommended cleansing agents: Water, if necessary together with cleansing agents.

14.1 UN-Number	
ADR, IMDG, IATA	UN2790
14.2 UN proper shipping name	
ADR	2790 ACETIC ACID SOLUTION
IMDG, IATA	ACETIC ACID SOLUTION
14.3 Transport hazard class(es)	
ADR	
Class	8 (C3) Corrosive substances.
Label	8
IMDG, IATA	
Class Label	8 Corrosive substances.
	0
14.4 Packing group ADR, IMDG, IATA	III
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user	Warning: Corrosive substances.
Danger code (Kemler):	80
EMS Number:	F-A,S-B
Segregation groups	Acids
14.7 Transport in bulk according to Anno	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
m	Maximum net quantity per outer packaging: 1000 ml
Transport category Tunnel restriction code	3 E



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. IMDG	
. Limited quantities (LQ)	5L
. Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
. UN "Model Regulation":	UN2790; ACETIC ACID SOLUTION; 8; III
. UN "Model Regulation":	

SECTION 15: Regulatory information

. **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture** No further relevant information available.

. 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

. Relevant phrases

×

H226 Flammable liquid and vapour.

- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.

R10 Flammable.

- R35 Causes severe burns.
- R41 Risk of serious damage to eyes.
- . Contact: e-mail: sida@tetenal.com

. Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organization ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent

Flam. Liq. 3: Flammable liquids, Hazard Category 3

- Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A
- Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
- Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
- . * Data compared to the previous version altered.